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09/677,467 09/29/2000		Ronald Azuma	PD99W172	3369
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JUDITH C CROWLEY			SCHLAIFER, JONATHAN D	
DALY CROWLEY & MOFFORD LLP 275 TURNPIKE STREET SUITE 101			ART UNIT	PAPER NUMBER
CANTON, MA 02021-2310			2178	

DATE MAILED: 05/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		09/677,467	AZUMA, RONALD			
	Office Action Summary	Examiner	Art Unit			
		Jonathan D. Schlaifer	2178			
Period fo	The MAILING DATE of this communication apports or Reply	ears on the cover sheet with the c	orrespondence address			
THE - Exte after - If th - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 17 Fe	ebruary 2005.				
2a)⊠	This action is FINAL . 2b)☐ This	action is non-final.				
3)[Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) 1-41 is/are pending in the application.	. (0				
·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-41</u> is/are rejected.					
•	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	tion Papers					
9)[The specification is objected to by the Examine	er.				
10)🛛	The drawing(s) filed on 29 September 2000 is/s	are: a)⊠ accepted or b)□ objed	cted to by the Examiner.			
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:)-(d) or (f).			
	1. Certified copies of the priority document		ion No			
	2. Certified copies of the priority document					
	3. Copies of the certified copies of the prio		eu III (IIIS National Stage			
*	application from the International Burea See the attached detailed Office action for a list		ed			
	See the attached detailed Office action for a list	of the defined copies not receive				
Attack	nt(c)					
Attachme	nτ(s) ce of References Cited (PTO-892)	4) Interview Summary	γ (PTO-413)			
2) Noti	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) 🛛 Info	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal I	Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date 2/22/05.

6) Other: _

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DETAILED ACTION

1. This action is responsive to amendment to application 09/677,467 filed on 2/17/2005, with prior art filed on 2/22/2005.

2. Claims 1-41 are pending in the case. Claims 1, 3, 13, 22, and 32 are independent claims. No claims have been amended.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3, and 22 remain rejected under 35 U.S.C. 102(e) as being anticipated by Madden et al. (USPN 6,091,424—filing date 11/1/1996), hereinafter Madden.
- 4. Regarding independent claim 1, Madden discloses an apparatus for positioning labels among graphical elements on a computer graphics display (see col. 1, lines 15-45), comprising: a display (inherent to applications mention in col. 1, lines 25-35); and a processor coupled to said display (inherent to applications mention in col. 1, lines 25-35) and operable to identify at least a first cluster of overlapping labels on said display, and operable to calculate new display coordinates for at least one label in said cluster and to move said label in accordance with said new display coordinates (col. 2, lines 5-25, Madden's invention identifies, reorganizes and displays in accordance with the reorganization a group of graphical objects which may be labels).

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5. Regarding independent claim 3, Madden discloses in col. 2 an apparatus for positioning among graphical elements on a computer graphics display (col. 2, lines 5-25), comprising: means for identifying at least a first cluster of overlapping labels; (col. 2, lines 5-25), means for calculating new display coordinates for at least one label in said cluster, (col. 2, lines 5-25), and means for moving said label in accordance with said new display coordinates (col. 2, lines 5-25). (Note that Madden performs these tasks because it is attempting to find a solution to the labeling problem.)

6. Regarding independent claim 22, it is a method that is performed by the apparatus of claim 3, and is rejected under similar rationale.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2, 4-5, 8-9, 13-14, 17, 20, 23-24, 27, 32-33, 36, 39, and 41 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood (USPN 6,507,838 B1—filing date 6/14/2000), further in view of Roy et al. (USPN 6,295,517 B1—filing date 4/7/1998), hereinafter Roy.
- 8. Regarding dependent claim 2, Madden fails to disclose an apparatus wherein said processor is operable to sequentially select labels from a plurality of labels on said display and to test each of said selected labels for overlap with other labels or graphical elements in said display, and said processor is operable to accumulate an overlap score

for each of said selected labels and, operable to generate a list of other labels and graphical elements that overlap each of said selected labels, and operable to compare a plurality of said lists and accumulate cluster lists of overlapping labels and graphical elements, and operable to sort a plurality of said cluster lists according to the number of entries in each. However, Syeda-Mahmood, in col. 2, lines 1-17 discloses the use of queries which select material with relevance score, which are capable of selecting sequential graphical material based on overlap in order to flexibly retrieve graphical objects. It would have been obvious to one of ordinary skill in the art at the time of the invention to use an overlap score to retrieve labels in the manner of Syeda-Mahmood into Madden's invention in order to flexibly retrieve graphical objects. Furthermore, Roy, in col. 8, lines 35-48 discloses how clusters of data may be grouped into a graph, which may be topologically sorted (which would produce a sorting by the number of entries), in order to provide organization and order to the data. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Roy's sorting capability into Madden's invention in order to provide organization and order to the data.

- 9. **Regarding dependent claim 4,** it is the method of claim 3 modified in a manner analogous to the manner in which claim 2 modifies claim 1, and may be rejected under similar rationale.
- 10. **Regarding dependent claim 5**, Madden fails to disclose an apparatus wherein said overlap score is based on the degree of severity of overlap between labels and graphical elements. However, in col. 2, lines 5-10, in Syeda-Mahmood, the invention uses relevance scores to assess the degree of overlap between matches in order to help manage

data relationships effectively. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the scoring methodology from Syeda-Mahmood's invention to enhance Madden's invention in order to help manage data relationships effectively.

- 11. Regarding dependent claim 8, Madden, Syeda-Mahmood, and Roy fail to explicitly disclose that said means for sorting orders the sort from largest cluster list to smallest cluster list. However, it was notoriously well known in the art at the time of the invention that it is desirable to sort from largest cluster to smallest cluster to allow processing of the most complicated groups first. It would have been obvious to one of ordinary skill in the art at the time of the invention to sort of largest to smallest cluster to allow processing of the most complicated groups first.
- 12. Regarding dependent claim 9, Madden, Syeda-Mahmood, and Roy fail to explicitly disclose means for comparing the degree of overlap of labels and graphical elements with said new display coordinates and the existing degree of overlap of labels and graphical elements. However, as stated in the rejection for claim 4, features for Madden, Syeda-Mahmood, and Roy can be combined to calculate overlap scores, and overlap scores can easily be compares to compare the degree of overlap between old and new display coordinates.
- 13. Regarding independent claim 13, Madden discloses an apparatus for positioning labels among graphical elements on a computer graphics display, comprising: means for sequentially selecting labels from a plurality of labels on the display (Abstract, lines 10-20) but Madden fails to disclose means for testing each of said selected labels for overlap

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with other labels and graphical elements in the display, means for accumulating an overlap score for each of said selected labels; means for generating a list of other labels and graphical elements that overlap each of said selected labels, means for comparing a plurality of said lists and accumulating cluster lists of overlapping labels and graphical elements; means for sorting a plurality of said cluster lists according to the number of entries in each; means for calculating new display coordinates for the labels on a cluster by cluster basis; means for comparing on a cluster by cluster basis, the degree of overlap of labels and graphical elements with said new display coordinates and the existing degree of overlap of labels and graphical elements, and if the new coordinates result in a reducation of the degree of overlap; means for moving the graphical elements to new positions according to said calculated display coordinates, and means for moving the graphical elements to new positions according to said calculated display coordinates. However, Syeda-Mahmood discloses means for testing each of said selected labels for overlap with other labels and graphical elements in the display; means for accumulating an overlap score for each of said selected labels; means for generating a list of other labels and graphical elements that overlap each of said selected labels; means for comparing a plurality of said lists and accumulating cluster lists of overlapping labels and graphical elements; (see col. 2, lines 1-17; Syeda-Mahmood scores and processes the labels.) The advantages of Syeda-Mahmood's invention is that it organizes the labels effectively. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Syeda-Mahmood's label-processing features into Madden in order to organize the labels effectively. Furthermore, Roy, in col. 8, lines 35-48 discloses

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how clusters of data may be grouped into a graph, which may be topologically sorted (which would produce a sorting by the number of entries), in order to provide organization and order to the data. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Roy's sorting capability into Madden's invention in order to provide organization and order to the data. Finally Madden provides means for calculating new display coordinates for the labels on a cluster by cluster basis (see col. 4, lines 15-25); means for comparing on a cluster by cluster basis (see col. 4, lines 15), the degree of overlap of labels and graphical elements with said new display coordinates and the existing degree of overlap of labels and graphical elements, and if the new coordinates result in a reducation of the degree of overlap (see col. 16, lines 10-65); these cluster-based reassignment techniques are valuable because they provide a reassignment of label locations with less conflicts. It would have been obvious to one of ordinary skill in the art at the time of the invention to reassign label locations according to the means of Madden because it would result in less locational conflict.

- 14. Regarding dependent claim 14, the claim modifies claim 13 in a manner analogous to the manner in which claim 5 modifies claim 4, and may be rejected under similar rationale.
- 15. Regarding dependent claim 17, the claim modifies claim 13 in a manner analogous to the manner in which claim 8 modifies claim 4, and may be rejected under similar rationale.
- 16. **Regarding dependent claim 20,** Madden, Syeda-Mahmood, Roy, and Madden fail to disclose that said calculating of new display coordinates is ordered according to said

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cluster list. However, the cluster list was generated for the purpose of organizing the display coordinates and it was notoriously well known in the art at the time of the invention that it would be helpful to use an organizational tool to help generate new display coordinates because it facilitates the process. It would have been obvious to one of ordinary skill in the art at the time of the invention to use cluster lists to generate new display coordinates because it would help organize and facilitate an approach to generating display coordinates.

- 17. Regarding dependent claim 23, it is a method that is performed by the apparatus of claim 4, and is rejected under similar rationale.
- 18. Regarding dependent claim 24, it is a method that is performed by the apparatus of claim 5, and is rejected under similar rationale.
- 19. **Regarding dependent claim 27**, it is a method that is performed by the apparatus of claim 8, and is rejected under similar rationale.
- 20. Regarding independent claim 32, it is a method that is performed by the apparatus of claim 13, and is rejected under similar rationale.
- 21. Regarding dependent claim 33, it is a method that is performed by the apparatus of claim 14, and is rejected under similar rationale.
- 22. Regarding dependent claim 36, it is a method that is performed by the apparatus of claim 17, and is rejected under similar rationale.
- 23. Regarding dependent claim 39, it is a method that is performed by the apparatus of claim 20, and is rejected under similar rationale.

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24. Regarding dependent claim 41, Madden, Syeda-Mahmood, Roy, and Madden fail to disclose the step of repeating the foregoing sequence of steps through a plurality of iterations. However, it was notoriously well known in the art at the time of the invention that it is useful to repeat useful processes multiple times to gain their benefits repeatedly. It would have been obvious to one of ordinary skill in the art at the time of the invention to repeat a method based on the inventions of Madden, Syeda-Mahmood, Roy, and Madded in order to gain repeated benefits.

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- 25. Claims 6-7 and 25-26 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood, further in view of Roy, further in view of Sagawa et al. (USPN 5,963,731—filing date 12/24/1996), hereinafter Sagawa.
- 26. Regarding dependent claim 6, Madden, Syeda-Mahmood, and Roy fail to disclose an apparatus including means for determining that the labels are overlapping other labels or graphical elements when they are mutually overlapping. However, Sagawa, in col. 4, lines 48-64, discloses a process for discriminating between mutually overlapping objects in a computer's memory in order to help discriminate between objects in overlap situations. It would have been obvious to one of ordinary skill in the art at the time of the invention to use Sagawa's method for dealing with overlap situations in the inventions of Madden, Syeda-Mahmood, and Roy in order to help discriminate between objects in overlap situations.
- 27. Regarding dependent claim 7, the rejection for claim 6 provides for the case when labels are mutually overlapping, and since the claim states "mutually or transitively" overlapping, this claim may be rejected under similar rationale to that used for claim 6.

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- 28. Regarding dependent claim 25, it is a method that is performed by the apparatus of claim 6, and is rejected under similar rationale.
- 29. Regarding dependent claim 26, it is a method that is performed by the apparatus of claim 7, and is rejected under similar rationale.
- 30. Claims 10 and 29 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Deering (USPN 6,525,723 B1—filing date 10/6/1999).
- 31. Regarding dependent claim 10, Madden fails to disclose means for calculating said new display coordinates according to a stochastic method. However, Deering, in col. 17, lines 53-67, discloses the use of stochastic sample points for a display in order to simplify the storage and access of display objects. It would have been obvious to one of ordinary skill in the art at the time of the invention to use Deering's stochastic sample points to simplify the storage and access of display objects.
- 32. Regarding dependent claim 29, it is a method that is performed by the apparatus of claim 10, and is rejected under similar rationale.
- 33. Claims 11 and 30 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Prakriya et al. (USPN 6,525,723 B1—filing date 10/6/1999), hereinafter Prakriya.
- 34. Regarding dependent claim 11, Madden fails to disclose means for calculating said new display coordinates according to a heuristic method. However, Prakriya, in col. 21, lines 55-60 discloses regulating a display style according to heuristics in order to provide a simple, workable method of regulating display elements. It would have been obvious to

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one of ordinary skill in the art at the time of the invention to include Prakriya's display heuristics into Madden's invention in order to provide a simple, workable method of regulating display elements.

- 35. Regarding dependent claim 30, it is a method that is performed by the apparatus of claim 11, and is rejected under similar rationale.
- 36. Claims 12 and 31 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Higgins et al. (USPN 5,307,455—filing date 4/11/1990), hereinafter Higgins.
- 37. Regarding dependent claim 12, Madden fails to disclose an apparatus wherein said means for moving further comprises: means for interpolating a plurality of intermediate display coordinates between the existing display coordinates and said new display coordinates and means for sequentially placing the labels at each of said intermediate display coordinates before placing said labels at said new display coordinates, thereby smoothing the movements of said labels on said display. However, Higgins, in col. 5, lines 39-60, describes moving a cursor using interpolated intermediate points in order to smooth the movement of the object. It would have been obvious to one of ordinary skill in the art at the time of the invention to use interpolation as in Higgins in Madden's invention in order to smooth the movement of the object.
- 38. Regarding dependent claim 31, it is a method that is performed by the apparatus of claim 12, and is rejected under similar rationale.

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39. Claims 15-16 and 34-35 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood, further in view of Roy, further in view of Sagawa.

- 40. **Regarding dependent claim 15,** the claim modifies claim 13 in a manner analogous to the manner in which claim 6 modifies claim 4, and may be rejected under similar rationale.
- 41. **Regarding dependent claim 16,** the claim modifies claim 13 in a manner analogous to the manner in which claim 7 modifies claim 4, and may be rejected under similar rationale.
- 42. **Regarding dependent claim 34**, it is a method that is performed by the apparatus of claim 15, and is rejected under similar rationale.
- 43. Regarding dependent claim 35, it is a method that is performed by the apparatus of claim 16, and is rejected under similar rationale.
- 44. Claim 18 and 37 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood, further in view of Roy, further in view of Deering.
- 45. Regarding dependent claim 18, the claim modifies claim 13 in a manner analogous to the manner in which claim 10 modifies claim 3, and may be rejected under similar rationale.
- 46. Regarding dependent claim 37, it is a method that is performed by the apparatus of claim 18, and is rejected under similar rationale.

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47. Claim 19 and 38 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood, further in view of Roy, further in view of Prakriya.

- 48. **Regarding dependent claim 19,** the claim modifies claim 13 in a manner analogous to the manner in which claim 11 modifies claim 3, and may be rejected under similar rationale.
- 49. Regarding dependent claim 38, it is a method that is performed by the apparatus of claim 19, and is rejected under similar rationale.
- 50. Claims 21 and 40 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Madden, further in view of Syeda-Mahmood, further in view of Roy, further in view of Higgins.
- 51. Regarding dependent claim 21, the claim modifies claim 13 in a manner analogous to the manner in which claim 12 modifies claim 3, and may be rejected under similar rationale.
- 52. Regarding dependent claim 40, it is a method that is performed by the apparatus of claim 21, and is rejected under similar rationale.
- 53. Claim 28 remains rejected under 35 U.S.C. 103(a) as being unpatentable over Madden.
- 54. Regarding dependent claim 28, Madden fails to disclose that the calculating step further comprises the step of: comparing the degree of overlap of labels and graphical elements with said new display coordinates and the existing degree of overlap of labels and graphical elements, and if the new coordinates result in a reduction of the degree of

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overlap, proceeding to said moving step. However, Madden provides means for calculating new display coordinates for the labels on a cluster by cluster basis (see col. 4, lines 15-25); means for comparing on a cluster by cluster basis (see col. 4, lines 15), the degree of overlap of labels and graphical elements with said new display coordinates and the existing degree of overlap of labels and graphical elements, and if the new coordinates result in a reducation of the degree of overlap (see col. 16, lines 10-65); these cluster-based reassignment techniques are valuable because they provide a reassignment of label locations with less conflicts. It would have been obvious to one of ordinary skill in the art at the time of the invention to reassign label locations according to the means of Madden because it would result in less locational conflict.

Response to Arguments

- 55. Applicant's arguments filed 2/17/2005 have been fully considered but they are not persuasive.
- 56. The Applicant submits that Madden et al. fails to teach "clusters". However, at the bottom of page 3 of the Applicant's remarks, in citing Madden's col. 10, lines 1-10. The Applicant submits that there is a different meaning of clusters in their invention as opposed to that used in Madden. This is possible. However, the Applicant's invention as presently claimed is not claimed specifically enough to differentiate it from Madden's invention, and if a different meaning of cluster is desired to be patented, it should be claimed. Similarly, claims 3 and 22 do not claim patentable material over Madden.
- 57. The Applicant posits that a patentable feature is sequentially selecting labels, as opposed to Madden, which Applicant alleges processes the labels simultaneously. However, the

Applicant neglects to realize that said "simultaneous" label processing requires sequentially processing the data of the constituent labels, based on the way in which processors operate on data.

- 58. Applicant alleges that Madden does not "move" labels, but instead takes an initial configuration, and arrives at a final configuration. This matches common usage for the term "move", in which a label begins at an initial state and arrives at a final state.
- 59. Applicant suggests that Syeda-Mahmood is insufficient to provide for the overlap features claimed. The Examiner reiterates that as described and set forth in the Office Action, it provides analogous principles that would have rendered it obvious.
- 60. Applicant suggests that Roy is insufficient. However, it is analogous because it includes elements that are similar to the claimed elements and provides analogous principles that would have rendered the claims obvious.
- 61. The rejections of claims 2, 4-5, 8-9, 13-14, 17, 20, 23-24, 27, 32-33, 36, 39, and 41 are traversed in light of the traversals of claims 1, 3, 13, 22, and 32; however, as these traversals are held invalid, the traversals for the dependent claims are also held invalid.
- 62. Similarly, the traversals of claims 6-7 and 25-26, as well as 10 and 29, 11 and 30, 12 and 31, 15-16 and 34-35, 18 and 37, 19 and 38, 21 and 40, and 28 are held invalid.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan D. Schlaifer whose telephone number is (571) 272-4129. The examiner can normally be reached on 8:30-5:00, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JS

STEPHEN HONG